Scenario - I - Individual FIM's
School District of Hartford Joint #1 - Phase 1 Group 1
Table 4.2: FIM Matrix

FIM #	FIM Name	Description (Existing Conditions)	Description (Proposed Conditions)	Building	Implementation Costs *	Annual Utility Savings	Approximate Annual CO2 Savings (lbs)	Annual Operational Savings	Capital Cost Avoidance	Potential Utility Rebate **	Net Customer Cost (with Utility Incentive & Capital Cost Avoidance)	Simple Payback (with Utility Incentive & Capital Cost Avoidance)
9.01-CMS	Lighting	Many areas throughout the building have flourescent fixtures containing 32 watt T12 lamps with magnetic ballasts. Gymnasium lighting is metal halide	Retrofit fixtures throughout the building with 28 watt T8 lamps and electronic ballasts for improved energy efficiency.	Central MS	$194,051	$15,622	223,604	$1,500	$0	$16,000	$178,051	10.4
9.01-LES	Lighting	Many areas throughout the building have flourescent fixtures containing 32 watt T8 lamps with electronic ballasts.	Retrofit fixtures throughout the building with 28 watt T8 lamps for improved energy efficiency.	Lincoln ES	$88,956	$7,801	108,569	$1,000	$0	$7,300	$81,656	9.3
9.01-RES	Lighting	Many areas throughout the building have flourescent fixtures containing 32 watt T8 lamps with electronic ballasts.	Retrofit fixtures throughout the building with 28 watt T8 lamps for improved energy efficiency.	Rossman ES	$140,511	$11,325	146,312	$1,000	$0	$13,300	$127,211	10.3
13.04-CMS	Building Envelope	Existing roof / wall intersections around perimeters of many building sections have gaps that contribute to excessive infiltration. Additionally, many exterior doors and windows have deteriorated door sweeps, weather stripping and caulking.	Seal these exterior openings with expansion foam and insulate to reduce infiltration, install door sweeps, weather stripping and caulking which will help lower energy consumption.	Central MS	$43,500	$3,161	36,244	$0	$0	$3,500	$40,000	12.7
13.04-LES	Building Envelope	Existing roof / wall intersections around perimeters of many building sections have gaps that contribute to excessive infiltration. Additionally, many exterior doors and windows have deteriorated door sweeps, weather stripping and caulking.	Seal these exterior openings with expansion foam and insulate to reduce infiltration, install door sweeps, weather stripping and caulking which will help lower energy consumption.	Central & Rossman	$60,518	$5,498	63,039	$0	$0	$5,000	$55,518	10.1
13.04-RES	Building Envelope	Existing roof / wall intersections around perimeters of many building sections have gaps that contribute to excessive infiltration. Additionally, many exterior doors and windows have deteriorated door sweeps, weather stripping and caulking.	Seal these exterior openings with expansion foam and insulate to reduce infiltration, install door sweeps, weather stripping and caulking which will help lower energy consumption.	Rossman ES	$111,750	$8,880	101,822	$0	$0	$8,000	$103,750	11.7
16.05-ALL	Vending Miser	Beverage vending machines run continously regardless of usage and occupancy	Install a vending 'miser' controller on the beverage vending machine(s) to suppress continous operation of the refrigeration compressor when building occupants are not using the machine(s).	All	$2,240	$515	6,997	$0	$0	$500	$1,740	3.4
18.16-CMS	Water Conservation	Most toilets, urinals and sinks throughout are original to the facility.	Install low flow toilets, urinals, and sinks.	Central MS	$11,798	$1,491	5,121	$600	$0	$0	$11,798	5.6
18.16-LES	Water Conservation	Most toilets, urinals and sinks throughout are original to the facility.	Install low flow toilets, urinals, and sinks.	Lincoln ES	$28,605	$3,819	5,540	$950	$0	$0	$28,605	6.0
18.16-RES	Water Conservation	Most toilets, urinals and sinks throughout are original to the facility.	Install low flow toilets, urinals, and sinks.	Rossman ES	$18,875	$1,697	7,250	$750	$0	$0	$18,875	7.7
25.22-CMS	Re-Cx	Many building HVAC Systems are original systems with some controls changes.	Recommission HVAC and DDC Control systems to improve energy usage and comfort levels through control strategies and system optimization.	Central MS	$77,302	$4,129	54,479	$0	$0	$24,157	$53,145	12.9
25.22-RES	Re-Cx	Many building HVAC Systems are original systems with some controls changes.	Recommission HVAC and DDC Control systems to improve energy usage and comfort levels through control strategies and system optimization.	Rossman ES	$69,501	$4,241	53,365	$0	$0	$21,719	$47,782	11.3
29.06-ALL	RCM	Currently minimal activites to promote energy savings progress and initiatives	Create a energy savings promotion to tie all the sustainability efforts together (20-40-15)	All	$20,000	$0	0	$0	$0	$0	$20,000	
30.01-ALL	Directed Engineering Study (DES)	N/A	Detailed Energy Study	All	$15,500	$0	0	$0	$0	$0	$15,500	
Totals for Selected FIMs					$883,106	$68,180	812,341	$5,800	$0	$99,476	$783,630	10.6

* Individual FIM Implementation Costs are approximate and shown for reference only. If individual FIMs are dropped from or added to the project, the project cost will not decrease or increase by exactly the dollar amount shown in this table.

** Utility rebate is contingent on utility company funding and final approval. Funds are shown for reference only.